PARAM SCIENCE MAGAZINE

Food is not just fuel, it's information.
It talks to your DNA and tells it what to do."

-Dr. Mark Hyman

MARCH SCIENCE DAYS

Self-Injury Awareness Day : 1st March World Hearing Day : 3rd March

Pi Day: 14th March

National Vaccination Day: 16th March World Meteorological Day: 23rd March World Tuberculosis Day: 24th March World Food
Safety Day
7 June

BIRTHDAYS!

Edward Condon: 2nd March 1902 Alexander Graham Bell: 03rd March 1847 Albert Einstein: 14th March 1879 Kalpana Chawla: 17 March 1962 Emmy Noether: 23rd March 1882 Vasant R Gowariker: 25th March 1933



Let's explore food's enchanting and nutritious aspects, with its vibrant colours, irresistible taste, enticing aromas, and delicious flavours.

FOOD MATTERS

FOOD NOURISHES AND ENERGIZES

MACRO NUTRIENTS







Proteins

Fats

Carbohydrates

MICRO NUTRIENTS





Vitamins

Minerals

FOOD PYRAMID

Fat/Oil/Sugar/Sweets 10 %

Meat/Fish/Mllk/Eggs 15%

Fruits 20%

Vegetables 25%

Bread/Cereals/pasta 30%

%

"To eat is a necessity, but to eat intelligently is an art." —La Rochefoucald

FOOD AND MOOD

NOURISHING THE BODY MIND AND SOUL



BEST FOODS FOR YOUR BODY

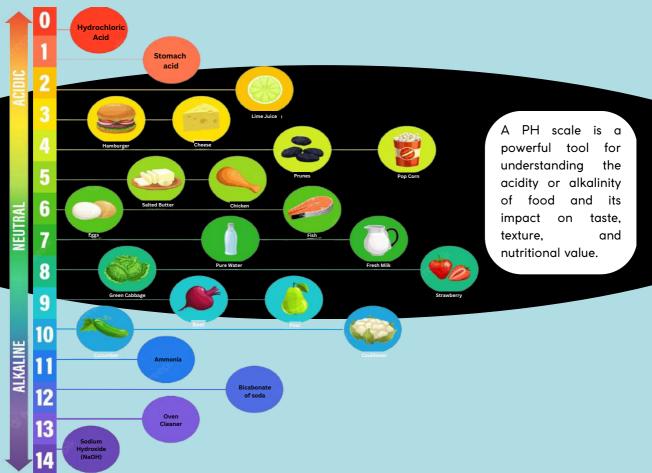
Food is the language of the body, and mood is its voice.



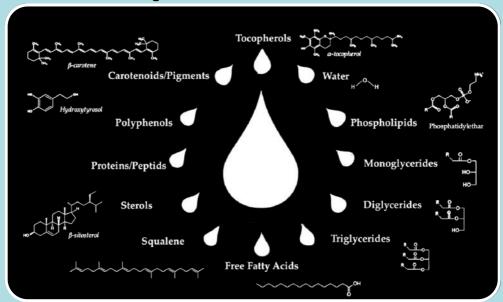
The food we consume plays a significant role in shaping our body, overall mind. and health. and it can influence our mood. energy levels. and longevity.

FOOD HAS CHEMISTRY

UNPACKING THE SCIENCE BEHIND WHAT WE EAT



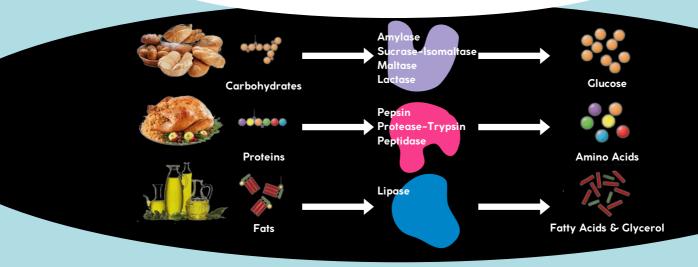
Components Of Oil



FOOD HAS CHEMISTRY

UNPACKING THE SCIENCE BEHIND WHAT WE EAT

Enzymes Breaking down food



Intestinal Juices

- Intestinal glands secrete intestinal juice
- · Intestinal Juice:
 - o Digestion of starch:
 - Maltose ______Glucose
 - Lactose | lactase | Glucose+Galactose | sucrase |
 - Sucrase Glucose + Fructose
 - o Digestion of small protein molecules
 - Peptones erepsin amino acids
 - Trypsinogen enterokinase trypsin
 - o Digestion of fats
 - Fats _____ fatty acids + glycerol

"Things sweet to taste prove in digestion sour" -William Shakespeare

FOOD HAS TEXTURE





















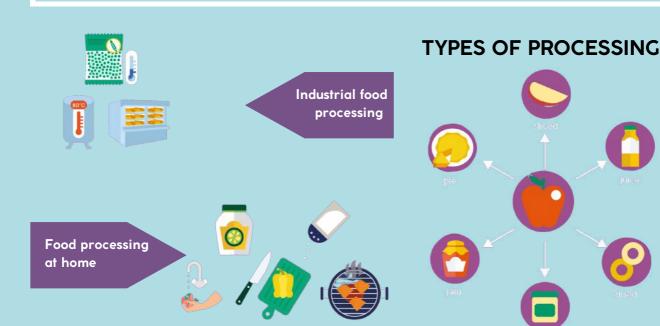
FOOD HAS COLOUR

EAT A RAINBOW!

Benefits of fruits and vegetables by colour



FOOD PROCESSING



Impact of food processing



Unexpected ingredients

Get the most out of processed foods







choose a healthier
option if you can:
wholegrain, fresh
and frozen fruit &
veg or tinned fish
in water not oil



check the labels to keep salt, fat & sugar in moderation





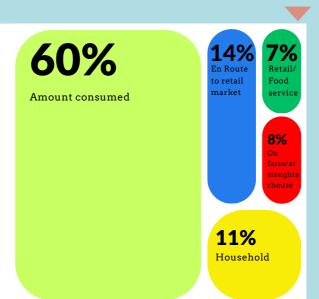
enjoy treats occasionally, watch portion sizes and be physically active

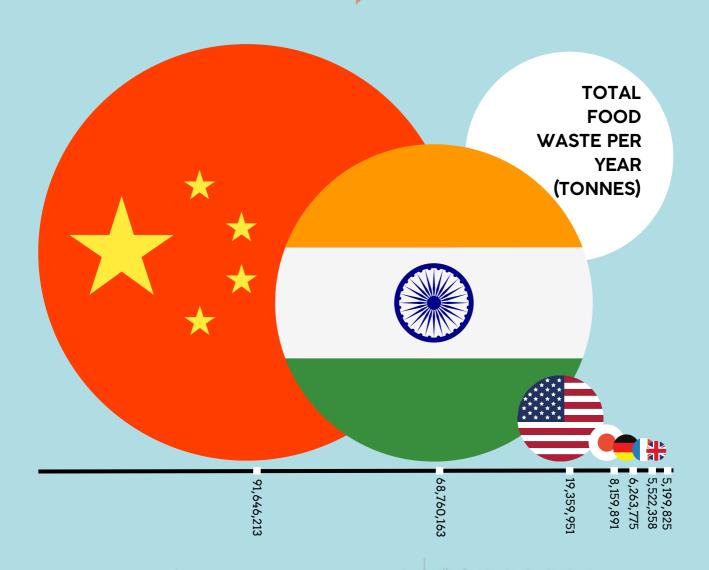


home cooking is also processing, be mindful of the ingredients you use

FOOD WASTE

WHERE FOOD IS
LOST AND
WASTED
(AS A PERCENTAGE
OF GLOBAL FOOD
PRODUCTION)





CULTURAL SIGNIFICANCE OF FOOD

Food is not simply meant for body nourishment, but was the basic part of a cosmic moral cycle



TASTE OF INDIA

Aromas of food trigger neurological responses, stimulating saliva production and activating digestion, which prepares the body for nutrient absorption.















FOOD COMBINATIONS

INCOMPATIBLE FOOD COMBINATONS

SAMYOGA VIRUDDHA AHARA



































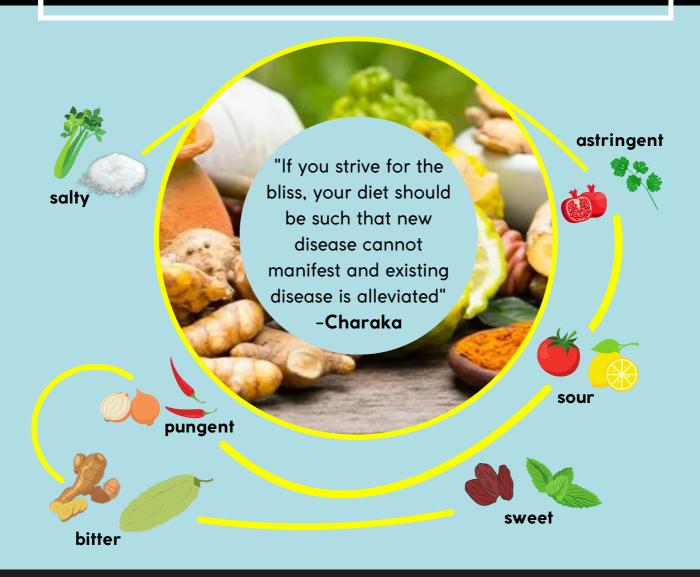




COMPATIBLE FOOD COMBINATONS



AYURVEDA IN FOOD



MUST HAVE AYURVEDIC FOOD LIST BASED ON DIFFERENT DOSAS







SATAVIC, RAJASIC & TAMASIC FOOD

Ahara" (diet) and "Anna" (food) as a means to good life, health and wellness.



आयुःसत्त्वबलारोग्यसुखप्रीतिविवर्धनाः । रस्याः स्निग्धाः स्थिरा हृद्या आहाराः सात्त्विकप्रियाः ॥

Juicy, naturally tasteful, mild, and beneficial, food which promote longevity





कट्टम्ललवणात्युष्णतीक्ष्णरूक्षविदाहिनः । आहारा राजसस्येष्टा दुःखशोकामयप्रदाः ॥

Foods that are bitter, too sour, salty, very hot, pungent, dry, and full of chilies, and produce pain, grief, and disease.





यातयामं गतरसं पूति पर्युषितं च यत् । उच्छिष्टमपि चामेध्यं भोजनं तामसप्रियम् ॥

Foods that are overcooked, stale, putrid, polluted, and impure are dear to persons in the mode of ignorance.



A PINCH OF MAGIC: EXOTIC SPICES



Spices enhance taste and offer health benefits like antibacterial and anti-inflammatory effects, improving heart health and digestion.

LEAVE NO ONE BEHIND



TOP DISHES

CHOCOLATE

chocolate is confectionary made from roasted and ground cacao beans, often mixed with sugar and milk

SUSHI

Sushi is a Japanese dish made of small balls of vinegar flavored rice topped with vegetables, fish, and other ingredients



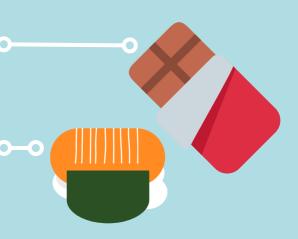
massaman curry is a mild, creamy thai dish with potatoes, peanuts and aromatic spices

PIZZA

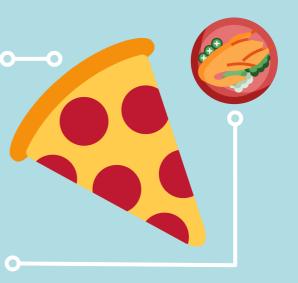
thin crust pizza from naples with tomato, basil and mozzarella; a classic italian staple

PEKING DUCK

crispy skinned roasted duck served with pancakes, scallions, cucumber and sweet bean sauce







DISHES NORLD

FOOD EXHIBIT

PLAN YOUR DIET



Amongst a variety of foods, pick and create your meal. Immediately receive the average cost, nutritional profile, Guna(Satavik, Rajasik, Tamasik) and emotional response to the meal.

Try to optimise your diet but realise that you cannot have everything.

Each plastic model shall contain a sensor which detects whether you have picked up the food or not.

Rasashala (Ancient Alchemy Lab)

Come set up intricate labs and mix safe rasas to create amazing concoctions.



Source : https://www.brainbashers.com/tentshelp.asp

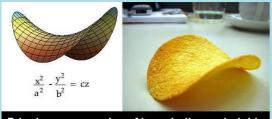
MONTHLY CHALLENGE

Which food combination are good for your health and which are not, send in your answers to content@paraminnovation.org for COOL PRIZES



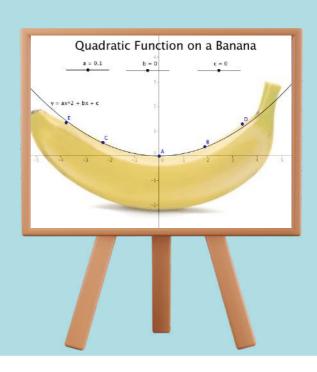
Name the different vitamin compounds that are on the footer of each page and send in your answers to content@paraminnovation.org

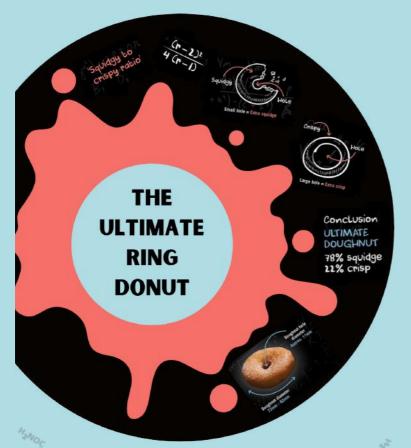
EQUATION OF DELICIOUSNESS

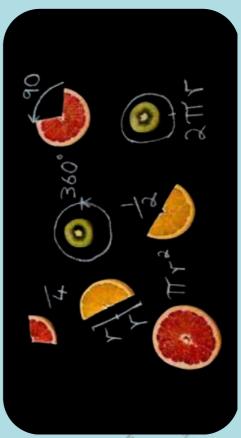


Pringles are examples of hyperbolic paraboloids.

The shape of Pringles potato chips (hyberbolic paraboloid) was designed using supercomputer to be aerodynamically stable so don't fly off the manufacturing line



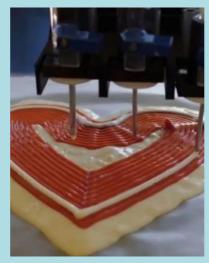




NEWS & LATEST RESEARCH

3D Printed Food







3D Printed Chocolate

3D Printed Pizza

3D Printed Snack

Space Foods

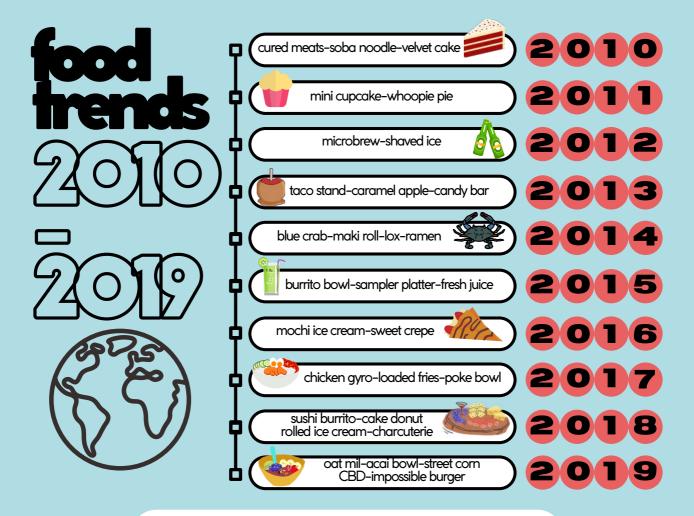


Ready-to-eat (RTE) space food introduced in 2021

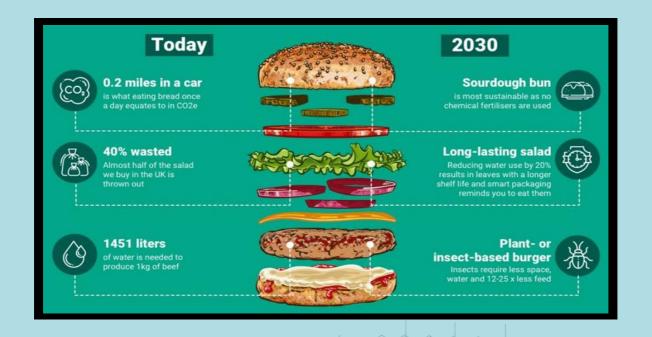
Japanese space food



DATA



What will a burger look like in 2030



DATA

Italian, Chinese and Japanese cuisines are the worlds most popular

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Italian cuisine	90	89	90	81	87	81	91	87	80	93	88	83	92	74	72	89	86	94	78	99	70	69	59	85	84	
Chinese cuisine	88	94	86	87	69	91	86	81	77	80	84	77	74	74	73	78	73	71	54	62	57	80	95	88	78	
Japanese cuisine	90	94	74	92	58	93	57	63	57	70	74	61	66	73	81	58	61	57	43	62	72	90	54	94	71	
Thai cuisine	76	91	85	76	61	84	75	77	65	70	68	74	78	91	75	68	73	56	31	52	51	98	44	48	70	
French cuisine	82	79	70	71	71	73	68	74	70	96	69	74	79	58	72	62	68	70	63	60	46	62	63	68	70	
Spanish cuisine	86	68	74	62	67	67	80	79	58	87	79	81	82	44	45	70	74	98	56	87	36	39	38	64	68 68	
American cuisine	93	83	68 77	76 62	75 71	62 54	70 76	69 81	75 70	56 78	91	68 84	63 77	65 51	71 46	53 71	70 78	49 72	66	54 77	66 38	73 54	51 42	57	67	
Mexican cuisine		72			71							75	parameter (62	
Indian cuisine Turkish cuisine	55 61	77 63	74 71	60 49	77	48	84 67	71 68	93	71 62	55 43	62	67 65	70 58	44	62	67 50	52 53	76 85	57 47	49 65	27 32	26 47	63 39	57	
Korean cuisine	87	86	66	74	50	78	43	45	42	45	58	43	48	66	81	45	32	36	29	32	63	78	52	66	56	Α
Greek cuisine	57	49	77	48	55	47	74	77	46	75	69	75	85	31	32	79	69	62	51	71	27	23	32	22	56	V E
Vietnamese cuisine	66	67	75	63	39	77	53	55	42	74	59	56	54	45	96	57	63	38	18	36	34	67	37	44	55	R A
Hong Kong cuisine	80	91	68	78	45	93	60	38	51	44	50	37	29	54	68	39	33	38	22	35	47	68	68	53	54	G E
German cuisine	59	64	63	62	47	65	51	63	49	51	63	52	57	35	51	87	37	43	38	40	37	54	45	46	52	
British cuisine	70	76	71	50	63	61	91	49	68	28	49	45	35	65	61	25	27	26	52	32	58	44	43	20	50	C
Taiwanese cuisine	68	87	59	96	42	88	37	37	42	46	48	31	25	49	62	41	28	36	24	32	40	54	64	66	50	S
Singaporean cuisine	72	96	75	68	53	73	55	31	62	31	34	34	24	74	64	33	29	27	26	29	55	52	54	33	49	N
Indonesian cuisine	59	84	71	49	47	46	54	43	48	44	39	43	44	80	39	50	44	34	46	35	97	26	31	32	49	Е
Malaysian cuisine	65	91	76	61	52	67	58	40	56	35	34	35	30	97	44	34	32	24	37	21	66	34	41	25	48	P
Australian cuisine	74	74	89	49	52	58	52	47	59	35	43	41	34	54	57	36	42	27	32	35	41	48	41	28	48	Р
Moroccan cuisine	50	49	65	44	63	38	66	49	50	81	47	48	51	45	26	42	44	53	67	50	39	25	34	16	48	Ļ
Lebanese cuisine	40	50	71	35	82	31	58	42	54	67	47	48	67	43	26	35	39	43	84	45	32	22	31	13	46	A R
Caribbean cuisine	63	50	55	46	47	39	66	57	50	54	68	54	48	31	35	50	44	54	33	49	21	29	30	22	46	T
Brazilian cuisine	59	45	56	43	48	41	49	47	49	58	55	48	40	26	47	49	42	56	39	66	28	29	42	33	46	Υ
Swedish cuisine	50	63	47	49	44	48	47	68	48	41	48	62	92	36	40	42	29	30	35	33	27	29	34	18	44	
Argentinian cuisine	55	35	53	42	45	36	46	42	43	54	48	54	41	24	35	60	45	77	29	75	25	24	37	16	43	
Danish cuisine	51	48	47		39	40		56	41	35	41					36	85		29	25		29	32	14	41	
Emirati cuisine	51	43	43	48	84	28	23	22	63	30	23	24	22	51	49	27	18	27	71	24	53	29	29	14	37	
Norwegian cuisine	47		39	41	41		31		38			81	41			33	27	27	26					17	37	
Filipino cuisine	97			35		29	29	37		31		40										25		21	36	
Saudi Arabian cuisine	47	42	41	33	67	30	18	21		29	24	20	22		28		22		89	25		22	31	11	36	
Finnish cuisine	47	37		33	35						27	28		26		26	13	18					30		32	
Peruvian cuisine	47			33										19		28		50			21	16		16	32	
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NOURISHMENT WITH FRUITS & VEGGIES

PART BY PART



FOOD FESTIVALS AROUND THE GLOBE

Top Food Festivals Around the Globe

- Hokitika Wild Food Festival, New Zealand
- The Taste. Los Angeles
- Food And Wine Festival, Melbourne, Australia.
- Gilroy Garlic Festival
- Dumpling Festival



Salon Du Chocolat, France



Food Festival, New Delhi, India



PIZZAFEST in Naples, Italy



The National Cherry Festival, Traverse City, Michigan



La Tomatina, Spain

FACTS & SNIPPETS



Fruit-flavored snacks shine because of car wax.

Food tastes different when you're flying.





Crackers have holes in them for a reason.

Cheese is the most stolen food in the world.





Honey is bee vomit.

Celery contains 16 calories per 100 g.



END ON A SWEET NOTE

Liver Hormone Regulates Sweet intake FGF21 hormone secreted in the liver regulates sweet craving

People who dislike sweets have 50% more FGF21 hormone















Indian sweets are essential to any festive occasion, symbolizing joy, auspiciousness, and abundance. No celebration is truly complete without them.

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This is a themed monthly magazine. Every month a new theme will be chosen and presented in the context of science and technology.





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